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SPECIFICATION FOR ISO METRIC SCREW THREADS

Part VI. Limits of Sizes for Commercial Bolts and Nuts

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BUREAU OF CEYLON STANDARDS

SPECIFICATION FOR ISO METRIC SCREW THREADS

Part VI. Limits of Sizes for Commercial Bolts and Nuts

S. L. S. 268 : 1974

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COLOMBO-3.

Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This Standard does not purport to include all the necessary provisions of a contract.

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SRI LANKA STANDARD SPECIFICATION FOR ISO METRIC SCREW THREADS

Part VI. Limits of sizes for commercial bolts and nuts (diameter range 1 to 39 mm)

FOREWORD

This Sri Lanka Standard Specification was prepared by the Drafting Committee on Metric Screw Threads. It was approved by the Mechanical Engineering Divisional Committee of the Bureau of Ceylon Standards and was authorised for adoption and publication by the council of the Bureau on 21st May, 1974.

Although this standard is not a revision of C.S. 96: Specification for Dimensions of parallel coarse screw thread of Whithworth form", this standard will replace it in due course.

This Standard is being issued in different parts as under:

Part I — Basic and Design Profiles
Part II — Pitch/Diameter combinations
Part III — Basic Dimensions
Part IV — Tolerancing System
Part V — Tolerances
Part VI — Limits of sizes for commercial bolts and nuts.

This standard (Part VI) is based on ISO/R965/II. "ISO General Purpose Metric Screw Threads — Tolerances — Limits of sizes for commercial bolt and nut threads, medium quality" issued by the international organization for standardization. In the preparation of this standard the assistance derived from the publications of the Indian Standards Institution is acknowledged.

This part of the standard has been prepared in order to make available, in convenient form, details of those ISO metric screw threads which will be commonly required for general purpose applications. Only the coarse pitch series of thread is covered in this standard. Limits are specified for three classes of fit namely Fine, Medium and Coarse for nominal length of engagement in the diameter range 1 to 39 mm.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, shall be rounded off in accordance with C.S. 102. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

This standard (Part VI) specifies the limits of sizes for ISO Metric Coarse pitch series Threads in the diameter range 1 to 39 mm for commercial bolts and nuts.

2. TOLERANCE CLASSES

2.1 The tolerance classes used for commercial bolts and nuts shall be as given below:

Tolerance Quality	*Tolerance Class*	
	Nut	**Bolt**
Fine	5 H	4 h
Medium	6 H	6 g
Coarse	7 H	8 g

3. SELECTION OF TOLERANCE QUALITIES

For the selection of tolerance qualities, the following general rules shall apply.

Fine : For precision threads when little variation of fit character is required.

Medium : For general use.

Coarse : For cases where manufacturing difficulties can arise, for example, when treading hot rolled bars and long blind holes.

4. DESIGNATION

4.1 A screw thread designation shall consist of size designation and tolerance class designation.

4.1.1 A coarse nut thread of nominal diameter 8 mm and tolerance class 6 H shall be designated as M 8 — 6 H

4.1.2 A coarse bolt thread of nominal diameter 8 mm and tolerance class 6g shall be designated as M8-6g

4.2 A fit between threaded parts, shall be indicated by the nut thread tolerance class, followed by bolt thread tolerance class separated by a stroke.

Example : M8 — 6H/6g.

5. DIMENSIONS AND TOLERANCES

5.1 The basic dimensions are given in part III of this standard.

5.2 The limits of sizes for commercial nuts and bolts for tolerance classes specified in 2.1 shall be as given in Tables 1 to 6.

5.3 For coated threads the tolerances apply to the parts before coating, unless otherwise stated. After coating, the actual thread profile should not in any point transgress the maximum material limits for position H or h respectively.

TABLE 1

LIMITS OF SIZES FOR COARSE PITCH SERIES NUT THREADS

TOLERANCE CLASS 5H

(Clause 5.2)

Size	Pitch	Major Diameter D Min.	Pitch Diameter D_2			Minor Diameter D_1		
			Max	Min.	Tolerance	Max.	Min.	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	mm	mm	mm	mm	µm	mm	mm	µm
M1	0.25	1,000	0.894	0.838	56	0.785	0.729	56
(M1.1)	0.25	1.100	0.994	0.938	56	0.885	0.829	56
M1.2	0.25	1.200	1.094	1.038	56	0.985	0.929	56
(M1.4)	0.3	1.400	1.265	1.205	60	1.142	1.075	67
M1.6	0.35	1.600	1.440	1.373	67	1.301	1.221	80
(M1.8)	0.35	1.800	1.640	1.573	67	1.501	1.421	80
M2	0.4	2.000	1.811	1.740	71	1.657	1.567	90
(M2.2)	0.45	2.200	1.983	1.908	75	1.813	1.713	100
M2.5	0.45	2.500	2.283	2.208	75	2.113	2.013	100
M3	0.5	3.000	2.755	2.675	80	2.571	2.459	112
(M3.5)	0.6	3.500	3.200	3.110	90	2.975	2.850	125
M4	0.7	4.000	3.640	3.545	95	3,382	3.242	140
(M4.5)	0.75	4.500	4.108	4.013	95	3.838	3.688	150
M5	0.8	5.000	4.580	4.480	100	4.294	4.134	160
M6	1	6.000	5.468	5.350	118	5.107	4.917	190
(M7)	1	7.000	6.468	6.350	118	6.107	5.917	190
M8	1.25	8.000	7.313	7.188	125	6.859	6.647	212
M10	1.5	10.000	9.166	9.026	140	8.612	8.376	236
M12	1.75	12.000	11.023	10.863	160	10.371	10.106	265
(M14)	2	14.000	12.871	12.701	170	12.135	11.835	300
M16	2	16.000	14.871	14.701	170	14.135	13.835	300
(M18)	2.5	18.000	16.556	16.376	180	15.649	15.294	355
M20	2.5	20.000	18.556	18.376	180	17.649	17.294	355
(M22)	2.5	22.000	20.556	20.376	180	19.649	19.294	355
M24	3	24.000	22.263	22.051	212	21.152	20.752	400
(M27)	3	27.000	25.263	25.051	212	24.152	23.752	400
M30	3.5	30.000	27.951	27.727	224	26.661	26.211	450
(M33)	3.5	33.000	30.951	30.727	224	29.661	29.211	450
M36	4	36.000	33.638	33.402	236	32.145	31.670	475
(M39)	4	39.000	36.638	36.402	236	35.145	34.670	475

µm — 0.001 mm

Note—Second preference sizes are shown in brackets in col. 1

TABLE 2

LIMITS OF SIZES FOR COARSE PITCH SERIES NUT THREADS

TOLERANCE CLASS 6H

(Clause 5.2)

Size	Pitch	Major Diameter D Min.	Pitch Diameter D_2			Minor Diameter D_1		
			Max	Min.	Tolerance	Max.	Min.	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	mm	mm	mm	mm	µm	mm	mm	µm
M1 ..	0.25	1.000	—	—	—	—	—	—
(M1.1) ..	0.25	1.100	—	—	—	—	—	—
M1.2 ..	0.25	1.200	—	—	—	—	—	—
(M1.4) ..	0.3	1.400	1.280	1.205	75	1.160	1.075	85
M1.6 ..	0.35	1.600	1.458	1.373	85	1.321	1.221	100
(M1.8) ..	0.35	1.800	1.658	1.573	85	1.521	1.421	100
M2 ..	0.4	2.000	1.830	1.740	90	1.679	1.567	112
(M2.2) ..	0.45	2.200	2.003	1.908	95	1.838	1.713	125
M2.5 ..	0.45	2.500	2.303	2.208	95	2.138	2.013	125
M3 ..	0.5	3.000	2.775	2.675	100	2.599	2.459	140
(M3.5) ..	0.6	3.500	3.222	3.110	112	3.010	2.850	160
M4 ..	0.7	4.000	3.663	3.545	118	3.422	3,242	180
(M4.5) ..	0.75	4.500	4.131	4.013	118	3.878	3.688	190
M5 ..	0.8	5.000	4.605	4.480	125	4.334	4.134	200
M6 ..	1	6.000	5.500	5.350	150	5.153	4.917	236
(M7) ..	1	7.000	6.500	6.350	150	6.153	5.917	236
M8 ..	1.25	8.000	7.348	7.188	160	6.912	6.647	265
M10 ..	1.5	10.000	9.206	9.026	180	8.676	8.376	300
M12 ..	1.75	12.000	11.063	10.863	200	10.441	10.106	335
(M14) ..	2	14.000	12.913	12.701	212	12.210	11.835	375
M16 ..	2	16.000	14.913	14.701	212	14.210	13.835	375
(M18) ..	2.5	18.000	16.600	16.376	224	15.744	15.294	450
M20 ..	2.5	20.000	18.600	18.376	224	17.744	17.294	450
(M22) ..	2.5	22.000	20.600	20.376	224	19.744	19.294	450
M24 ..	3	24.000	22.316	22.051	265	21.252	20.752	500
(M27) ..	3	27.000	25.316	25.051	265	24.252	23.752	500
M30 ..	3.5	30.000	28.007	27.727	280	26.771	26.211	560
(M33) ..	3.5	33.000	31.007	30.727	280	29.771	29.211	560
M36 ..	4	36.000	33.702	33.402	300	32.270	31.670	600
(M39) ..	4	39.000	36.702	36.402	300	35.270	34.670	600

µm = 0.001 mm

Note: Second preference sizes are shown in brackets in col. 1.

TABLE 3

LIMITS OF SIZES FOR COARSE PITCH SERIES NUT THREADS

TOLERANCE CLASS 7H

(Clause 5.2)

Size	Pitch P	Major Diameter D Min.	Pitch Diameter D_2			Minor Diameter D_1		
			Max	Min.	Tolerance	Max.	Min.	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	mm	mm	mm	mm	µm	mm	mm	µm
M1 ..	0.25	1.000	—	—	—	—	—	—
(M1.1) ..	0.25	1.100	—	—	—	—	—	—
M1.2 ..	0.25	1.200	—	—	—	—	—	—
(M1.4) ..	0.3	1.400	—	—	—	—	—	—
M1.6 ..	0.35	1.600	—	—	—	—	—	—
(M1.8) ..	0.35	1.800	—	—	—	—	—	—
M2 ..	0.4	2.000	—	—	—	—	—	—
(M2.2) ..	0.45	2.200	—	—	—	—	—	—
M2.5 ..	0.45	2.500	—	—	—	—	—	—
M3 ..	0.5	3.000	2.800	2.675	125	2.639	2.459	180
(M3.5) ..	0.6	3.500	3.250	3.110	140	3.050	2.850	200
M4 ..	0.7	4.000	3.695	3.545	150	3.466	3.242	224
(M4.5) ..	0.75	4.500	4.163	4.013	150	3.924	3.688	236
M5 ..	0.8	5.000	4.640	4.480	160	4.384	4.134	250
M6 ..	1	6.000	5.540	5.350	190	5.217	4.917	300
(M7) ..	1	7.000	6.540	6.350	190	6.217	5.917	300
M8 ..	1.25	8.000	7.388	7.188	200	6.982	6.647	335
M10 ..	1.5	10.000	9.250	9.026	224	8.751	8.376	375
M12 ..	1.75	12.000	11.113	10.863	250	10.531	10.106	425
(N14) ..	2	14.000	12.966	12.701	265	12.310	11.835	475
M16 ..	2	16.000	14.966	14.701	265	14.310	13.835	475
(M18) ..	2.5	18.000	16.656	16.376	280	15.854	15.294	560
M20 ..	2.5	20.000	18.656	18.376	280	17.854	17.294	560
(M22) ..	2.5	22.000	20.656	20.376	280	19.854	19.294	560
M24 ..	3	24.000	22.386	22.051	335	21.382	20.752	630
(M27) ..	3	27.000	25.386	25.051	335	24.382	23.752	630
M30 ..	3.5	30.000	28.082	27.727	355	26.921	26.211	710
(M33) ..	3.5	33.000	31.082	30.727	355	29.921	29.211	710
M36 ..	4	36.000	33.777	33.402	375	32.420	31.670	750
(M39) ..	4	39.000	36.777	36.402	375	35.420	34.670	750

µm—0.001 mm

Note: Second preference sizes are shown in brackets in col. 1.

TABLE 4

LIMITS OF SIZES FOR COARSE PITCH SERIES BOLT THREAD

TOLERANCE CLASS 4h

(Clause 5.2)

Size	Pitch P	Major Diameter d			Pitch Diameter d 2			Minor Diameter d 3		
		Max	Min	Tolerance	Max	Min	Tolerance	Max	Min	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	mm	mm	mm	μm	mm	mm	μm	mm	mm	μm
M1	0.25	1.000	0.958	42	0.838	0.804	34	0.693	0.641	52
(M1.1)	0.25	1.100	1.058	42	0.938	0.904	34	0.793	0.741	52
M1.2	0.25	1.200	1.158	42	1.038	1.004	34	0.893	0.841	52
(M1.4)	0.3	1.400	1.352	48	1.205	1.169	36	1.032	0.974	58
M1.6	0.35	1.600	1.547	53	1.373	1.333	40	1.171	1.106	65
(M1.8)	0.35	1.800	1.747	53	1.573	1.533	40	1.371	1.306	65
M2	0.4	2.000	1.940	60	1.740	1.698	42	1.509	1.438	71
(M2.2)	0.45	2.200	2.137	63	1.908	1.863	45	1.648	1.571	77
M2.5	0.45	2.500	2.437	63	2.208	2.163	45	1.948	1.871	77
M3	0.5	3.000	2.933	67	2.675	2.627	48	2.387	2.303	84
(M3.5)	0.6	3.500	3.420	80	3.110	3.057	53	2.764	2.668	96
M4	0.7	4.000	3.910	90	3.545	3.489	56	3.141	3.035	106
(M4.5)	0.75	4.500	4.410	90	4.013	3.957	56	3.580	3.470	110
M5	0.8	5.000	4.903	95	4.480	4.420	60	4.019	3.901	118
M6	1	6.000	5.888	112	5.350	5.279	71	4.773	4.630	143
(M7)	1	7.000	6.888	112	6.350	6.279	71	5,773	5.630	143
M8	1.25	8.000	7.868	132	7.188	7.113	75	6.466	6.301	165
M10	1.5	10.000	9.850	150	9.026	8.941	85	8.160	7.967	193
M12	1.75	12.000	11.830	170	10.863	10.768	95	9.853	9.632	221
(M14)	2	14.000	13.820	185	12.701	12.601	100	11.546	11.302	244
M16	2	16.000	15.820	180	14.701	14.601	100	13.546	13.302	244
(M18)	2.5	18.000	17.788	212	16.376	16.270	106	14.933	14.647	286
M20	2.5	20.000	19.788	212	18.376	18.270	106	16.933	16.647	286
(M22)	2.5	22.000	21.788	212	20.376	20.270	106	18.933	18.647	286
M24	3	24.000	23.764	236	22.051	21.926	125	20.319	19.978	341
(M27)	3	27.000	26.764	236	25.051	24.926	125	23.319	22.978	341
M30	3.5	30.000	29.735	265	27.727	27.595	132	25.706	25.322	384
(M33)	3.5	33.000	32.735	265	30.727	30.595	132	28.706	28.322	384
M36	4	36.000	35.700	300	33.402	33.262	140	31.093	30.665	428
(M39)	4	39.000	38.700	300	36.402	36.262	140	34.093	33.665	428

μm = 0.001 mm

Note 1 — Second preference sizes are shown in brackets in col. 1

Note 2 — The inspection of minor diameter limits is done only if asked for.

TABLE 5

LIMITS OF SIZES FOR COARSE PITCH SERIES BOLT THREADS TOLERANCE CLASS 6g

(Clause 5.2)

Size	Pitch	Major Diameter d			Pitch Diameter d_2			Minor Diameter d_3		
	P	Max	Min	Tolerance	Max	Min	Tolerance	Max	Min	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	mm	mm	mm	µm	mm	mm	µm	mm	mm	µm
M1 ..	0.25	0.982	0.915	67	0.820	0.767	53	0.675	0.604	71
(M1.1) ..	0.25	1.082	1.015	67	0.920	0.867	53	0.775	0.704	71
M1.2 ..	0.25	1.182	1.115	67	1.020	0.967	53	0.875	0.804	71
M1.4 ..	0.3	1.382	1.307	75	1.187	1.131	56	1.014	0.936	78
M1.6 ..	0.35	1.581	1.496	85	1.354	1.291	63	1.151	1.563	88
(M1.8) ..	0.35	1.781	1.696	85	1.554	1.491	63	1.351	1.263	88
M2 ..	0.4	1.198	1.886	95	1.721	1.654	67	1.490	1.394	96
(M2.2) ..	0.45	2.180	2.080	100	1.888	1.817	71	1.628	1.525	103
M2.5 ..	0.45	2.480	2.380	100	2.188	2.117	71	1.928	1.825	103
M3 ..	0.5	2.980	2.874	106	2.655	2.580	75	2.367	2.256	111
(M3.5) ..	0.6	3.479	3.354	125	3.089	3.004	85	2.743	2.615	128
M4 ..	0.7	3.978	3.838	140	3.523	3.433	90	3.119	2.979	140
(M4.5) ..	0.75	4.478	4.338	140	3.991	3.901	90	3.558	3.414	144
M5 ..	0.8	4.976	4.826	150	4.456	4.361	95	3.995	3.842	153
M6 ..	1	5.974	5.794	180	5.324	5.212	112	4.747	4.563	184
(M7) ..	1	6.974	6.794	180	6.324	6.212	112	5.747	5.563	184
M8 ..	1.25	7.972	7.760	212	7.160	7.042	118	6.438	6.230	208
M10 ..	1.5	9.968	9.732	236	8.994	8.862	132	8.128	7.888	240
M12 ..	1.75	11.966	11.701	265	10.829	10.679	150	9.819	9.543	276
(M14) ..	2	13.962	13.682	280	12.683	12.503	160	11.508	11.204	304
M16 ..	2	15.962	15.682	280	14.663	14.503	160	13.508	13.204	304
(M18) ..	2.5	17.958	17.623	335	16.334	16.164	170	14.891	14.541	350
M20 ..	2.5	19.958	19.623	335	18.334	18.164	170	16.891	16.541	350
(M22) ..	2.5	21.958	21.623	335	20.334	20.164	170	18.891	18.541	350
M24 ..	3	23.952	23.577	375	22.003	21.803	200	20.271	19.855	416
(M27) ..	3	26.952	26.577	375	25.003	24.803	200	23.271	22.855	416
M30 ..	3.5	29.947	29.522	425	27.674	27.462	212	25.653	25.189	464
(M33) ..	3.5	32.947	32.522	425	30.674	30.462	212	28.653	28.189	464
M36 ..	4	35.940	35.465	475	33.342	33.118	224	31.033	30.521	512
(M39) ..	4	38.940	38.465	475	36.342	36.118	224	34.033	33.521	512

µm = 0.011 mm

Note: 1 — Second preference sizes are shown in brackets in col. 1.

Note: 2 — The inspection of minor diameter limits is done only if asked for.

TABLE 6

LIMITS OF SIZES FOR COARSE PITCH SERIES BOLT THREADS TOLERANCE CLASS 8g

(Clause 5.2)

Size	Pitch	Major Diameter d			Pitch Diameter d_2			Minor Diameter d_3		
	P	Max	Min	Tolerance	Max	Min	Tolerance	Max	Min	Tolerance
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
M1	0.25	—	—	—	—	—	—	—	—	—
(M1.1)	0.25	—	—	—	—	—	—	—	—	—
M1.2	0.25	—	—	—	—	—	—	—	—	—
(M1.4)	0.3	—	—	—	—	—	—	—	—	—
M1.6	0.35	—	—	—	—	—	—	—	—	—
(M1.8)	0.35	—	—	—	—	—	—	—	—	—
M2	0.4	—	—	—	—	—	—	—	—	—
(M2.2)	0.45	—	—	—	—	—	—	—	—	—
M2.5	0.45	—	—	—	—	—	—	—	—	—
M3	0.5	—	—	—	—	—	—	—	—	—
(M3.5)	0.6	—	—	—	—	—	—	—	—	—
M4	0.7	—	—	—	—	—	—	—	—	—
(M4.5)	0.75	—	—	—	—	—	—	—	—	—
(M5	0.8	4.976	4.740	236	4.456	4.306	150	3.995	3.787	208
M6	1	5.974	5.694	280	5.324	5.144	180	4.747	4.495	252
(M7)	1	6.974	6.694	280	6.324	6.144	180	5.747	5.495	252
M8	1.25	7.972	7.637	335	7.160	6.970	190	6.438	6.158	280
M10	1.5	9.968	9.593	375	8.994	8.782	212	8.128	7.808	320
M12	1.75	11.966	11.541	425	10.829	10.593	236	9.819	9.457	362
(M14)	2	13.962	13.512	450	12.663	12.413	250	11.508	11.114	394
M16	2	15.962	15.512	450	14.663	14.413	250	13.508	13.114	394
(M18)	2.5	17.958	17.428	530	16.334	16.069	265	14.891	14.446	445
M20	2.5	19.958	19.428	530	18.334	18.069	265	16.891	16.446	445
M22)	2.5	21.958	21.428	530	20.334	20.069	265	18.891	18.446	445
(M24	3	23.952	23.352	600	22.003	21.688	315	20.271	19.740	531
(M27)	3	26.952	26.352	600	25.003	24.688	315	23.271	22.740	531
M30	3.5	29.947	29.277	670	27.674	27.339	335	25.653	25.006	587
(M33)	3.5	32.947	32.277	670	30.674	30.339	335	28.653	28.066	587
M36	4	35.940	35.190	750	33.342	32.987	355	31.033	30.390	643
(M39)	4	39.940	38.190	750	36.342	35.987	355	34.033	33.390	643

$\mu m = 0.001$ mm

Note 1: Second preference sizes are shown in brackets in col. 1.

Note 2: The inspection of minor diameter limits is done only if asked for.

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